



**NSAI**  
Standards

Irish Standard  
I.S. EN 1870-17:2012+A1:2015

# Safety of woodworking machines - Circular sawing machines - Part 17: Manual horizontal cutting cross-cut sawing machines with one saw unit (radial arm saws)

**I.S. EN 1870-17:2012+A1:2015**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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**Safety of woodworking machines - Circular sawing machines -  
Part 17: Manual horizontal cutting cross-cut sawing machines  
with one saw unit (radial arm saws)**

Sécurité des machines pour le travail du bois - Machines à  
scies circulaires - Partie 17: Tronçonneuses manuelles à  
coupe horizontale avec une unité de sciage (scies  
circulaires radiales manuelles)

Sicherheit von Holzbearbeitungsmaschinen -  
Kreissägemaschinen - Teil 17: Handbetätigte waagrecht  
schneidende Auslegerkreissägemaschinen mit einem  
Sägeaggregat (handbetätigte Radialsägen)

This European Standard was approved by CEN on 4 August 2012 and includes Amendment 1 approved by CEN on 1 March 2015.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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**EN 1870-17:2012+A1:2015 (E)****Foreword**

This document (EN 1870-17:2012+A1:2015) has been prepared by Technical Committee CEN/TC 142 "Woodworking machines - Safety", the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2015, and conflicting national standards shall be withdrawn at the latest by October 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes A1 EN 1870-17:2012 A1.

This document includes Amendment 1 approved by CEN on 2015-03-01.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of the Machinery Directive.

For relationship with the Machinery Directive 2006/42/EC, see informative Annex ZA, which is an integral part of this document.

The main modification to the 2009 edition relates to the introduction of performance levels (PL).

Organisations contributing to the preparation of this European Standard include European Committee of Woodworking Machinery Manufacturers Association "EUMABOIS".

EN 1870, *Safety of woodworking machines — Circular sawing machines*, consists of the following parts:

- *Part 1: Circular saw benches (with and without sliding table), dimension saws and building site saws;*
- *Part 3: Down cutting cross-cut saws and dual purpose down cutting cross-cut saws/circular saw benches;*
- *Part 4: Multi-blade rip sawing machines with manual loading and/or unloading;*
- *Part 5: Circular sawbenches/up-cutting cross-cut sawing machines;*
- *Part 6: Circular sawing machines for firewood and dual purpose circular sawing machines for firewood/circular saw benches, with manual loading and/or unloading;*
- *Part 7: Single blade log sawing machines with integrated feed table and manual loading and/or unloading;*
- *Part 8: Single blade edging circular rip sawing machines with power driven saw unit and manual loading and/or unloading;*
- *Part 9: Double blade circular sawing machines for cross-cutting with integrated feed and with manual loading and/or unloading;*
- *Part 10: Single blade automatic and semi-automatic up-cutting cross-cut sawing machines;*
- *Part 11: Semi-automatic and automatic horizontal cross-cut sawing machines with one saw unit (radial arm saws);*

- *Part 12: Pendulum cross-cut sawing machines;*
- *Part 13: Horizontal beam panel sawing machines;*
- *Part 14: Vertical panel sawing machines;*
- *Part 15: Multi-blade cross-cut sawing machines with integrated feed of the workpiece and manual loading and/or unloading;*
- *Part 16: Double mitre sawing machines for V-cutting;*
- *Part 17: Manual horizontal cutting cross-cut sawing machines with one saw unit (radial arm saws);*
- *Part 18: Dimension saws (at Enquiry stage at the time of publication of the present document);*
- *Part 19: Circular saw benches (with and without sliding table) and building site saws (at Enquiry stage at the time of publication of the present document).*

The European Standards produced by CEN/TC 142 are particular to woodworking machines and complement the relevant A and B standards on the subject of general safety (see Introduction of EN ISO 12100:2010 for a description of A, B and C standards).

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **EN 1870-17:2012+A1:2015 (E)**

### **Introduction**

This document has been prepared to be a harmonised standard to provide one means of conforming to the essential safety requirements of the Machinery Directive, and associated EFTA regulations. This document is a type C standard as stated in EN ISO 12100:2010.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of other standards, for machines that have been designed and built in accordance with the requirements of the provisions of this type C standard.

The requirements of this document are directed to manufacturers and their authorised representatives of manual horizontal cutting cross-cut circular sawing machines with one saw unit (manual radial arm saws). It is also useful for designers.

This document also includes provisions and examples of information to be provided by the manufacturer to the user.

Common requirements for tooling are given in EN 847-1:2005+A1:2007.



## 1 Scope

This European Standard specifies all significant hazards, hazardous situation and events as listed in Clause 4, relevant to stationary and displaceable manual horizontal cutting cross-cut circular sawing machines with one saw unit (manual radial arm saws), hereinafter referred to as “machines”, designed to cut solid wood, chipboard, fibreboard, plywood and also these materials if they are covered with plastic edging and/or plastic laminates, when they are used as intended and under the conditions foreseen by the manufacturer including reasonably foreseeable misuse.

NOTE 1 For the definition of stationary and displaceable machine, see 3.2.3 and 3.2.4.

The requirements of this document apply to all machines whatever their method of control e.g. electromechanical and/or electronic.

This document does not apply to:

- a) machines set up on a bench or a table similar to a bench, which are intended to carry out work in a stationary position, capable of being lifted by one person by hand; the bench can also be an integrated part of the machine if it consists of hinged legs which can be extended down;

NOTE 2 Transportable motor-operated electrical tools are dealt with in EN 61029-1:2009 together with IEC 61029-2-2:1993.

- b) machines fitted with hydraulically powered machine actuators;
- c) machines fitted with powered work-piece positioning;
- d) machines fitted with the facility for either ripping, milling (including trenching and grooving), sanding and/or drilling;
- e) machines equipped with more than one saw spindle speed;

NOTE 3 A standard to cover machines that can be used for ripping and moulding will be considered at the next revision.

NOTE 4 Semi-automatic and automatic horizontal cutting cross-cut circular sawing machines with one saw unit (radial arm saws) are dealt with in EN 1870-11:2003+A1:2009.

- f) machines with integrated feed.

This document is not applicable to manual horizontal cutting cross-cut circular sawing machines with one saw unit (manual radial arm saws) which are manufactured before the date of its publication as EN.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 614-1:2006+A1:2009, *Safety of machinery — Ergonomic design principles — Part 1: Terminology and general principles*

EN 614-2:2000+A1:2008, *Safety of machinery — Ergonomic design principles — Part 2: Interactions between the design of machinery and work tasks*

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